

1 rheumatoids.

2 DR. CHENG: Let me try to gain a better
3 understanding of your comments. If we have someone
4 with rheumatoid arthritis and satisfactory soft
5 tissue constraints, do you think this will work as
6 well as--I know we're not supposed to compare with
7 other devices--but I am asking you would it work as
8 well as the other silastic component?

9 DR. NAIDU: My gut feeling is that it
10 will, provided all the training and everything is
11 done properly. That's my gut feeling if the soft
12 tissue envelope is adequate. But I can't tell you
13 that based on the data that has been provided. I
14 know it is difficult to obtain such data. I know
15 that we are working with a limited amount. And
16 this is a significant advancement, too.

17 So I am left wrestling with this as to
18 where I should go next, and the only thing I feel
19 comfortable with at this point is the
20 osteoarthritic and post-traumatic.

21 DR. SKINNER: Dr. Aboulafia?

22 DR. ABOULAFIA: I think we all recognize
23 and share your opinion, and at least when I look at
24 things before the FDA, everything is a risk-benefit
25 and sort of a weighing of safety and efficacy, and

1 for things that represent significant potential
2 harm, the threshold for approving efficacy might be
3 very, very, very high; for something that appears
4 by all parameters to be safe, the threshold might
5 be different.

6 So as I wrestle with is this the perfect
7 study, are there legitimate criticisms, did they
8 prove beyond a reasonable statistical significance
9 that it is going to function better or substantial
10 equivalent, I try to think of what the risks are,
11 and are you comfortable at least with the safety
12 issues.

13 DR. NAIDU: I understand what you're
14 saying, but unfortunately, even that's not--these
15 are late-stage rheumatoid deformities that were
16 presented in clinical series, and we're talking
17 about reconstruction that I have to try to imagine
18 at this point as to what the soft tissue envelope
19 is.

20 Looking at the complications, at least for
21 the osteoarthritic and post-traumatic group, I feel
22 comfortable. For the rheumatoid arthritis and the
23 SLE group, the data that is provided, 16 of the 22
24 needed reoperation within one year for soft tissue
25 concerns. And you know, no matter how much

1 labeling you put in, these are challenging issues
2 that you have to wrestle with.

3 I don't know what to say.

4 DR. SKINNER: Dr. Peimer, do you have some
5 comments? If you don't, I do. I look at the
6 early--I'll give you a minute--I look at the early
7 to mid rheumatoid arthritis with destruction of the
8 joint surface, with an intact soft tissue envelope,
9 as being roughly equivalent to an osteoarthritic.
10 And this is a patient who is typically too early
11 for a Swanson, and they just basically have to
12 suffer until they get worse.

13 So I look at it as an opportunity to help
14 a patient earlier than you would otherwise.
15 Synovectomy isn't going to help if the cartilage is
16 destroyed. It looks to me like it walks like a
17 duck, talks like a duck--it's an osteoarthritic.

18 Dr. Peimer?

19 DR. PEIMER: Why is it that
20 osteoarthritics talk like ducks in California?

21 Actually, I'd like to ask Dr. Beckenbaugh
22 a question, that is, in going back in these 16
23 people and doing the soft tissue reconstruction,
24 drop the other shoe--then what happened? You had
25 to go back, you had to rebalance, you had to do

1 some ligaments, you had to realign tendons.

2 DR. BECKENBAUGH: Yes, we did, I believe,
3 mention that we did have to replace approximately
4 half of them with silicone because the soft tissues
5 were not reconstructible; and the long-term
6 survival of the others was satisfactory.

7 When we looked at the options again of the
8 risk versus the reward versus the efficacy and
9 safety, we've got a lot of those covered. It seems
10 to me like it's a very safe material. We have had
11 virtually no major problems with it. If they fail,
12 we can reconstruct them. And they are durable, and
13 they act more like regular joints. It's just the
14 kind of thing that in an early rheumatoid would
15 offer us something to do for them, because we just
16 can't do it right now. I'm not going to put a
17 silicone in the types of patients I described to
18 you. But if we've got a good soft tissue envelope
19 that you've discussed, and that can be in a more
20 advanced arthritic case, we can do this operation.

21 DR. SKINNER: Dr. Finnegan?

22 DR. FINNEGAN: Do you think that you just
23 described a pilot project which allowed you to
24 define the limitations of the material and that the
25 next step, then, should be a prospective,

1 randomized, controlled--

2 DR. BECKENBAUGH: We really can't
3 randomize and control this type of device, because
4 there are different indications. I would not do a
5 silicone device in the types of patients that I
6 would do this operation in, so I don't think that's
7 practical.

8 DR. FINNEGAN: But you could do standard
9 of treatment.

10 DR. BECKENBAUGH: We have had a lot of
11 experience which suggests that this is efficacious
12 material in people with minimal soft tissue
13 disease, and I wouldn't feel good about trying to
14 randomize a person into silicone or this joint
15 replacement.

16 DR. FINNEGAN: But you could randomize
17 them into standard treatment, which is to follow
18 them and this particular implant and then see how
19 they do.

20 DR. BECKENBAUGH: I guess I don't
21 understand that.

22 DR. FINNEGAN: Your standard of care right
23 now for an early rheumatoid is to follow them, do
24 hand therapy and medications, and not do any
25 surgical intervention?

1 DR. BECKENBAUGH: Well, we--that's
2 correct. We don't intervene until they get to a
3 more severe state.

4 DR. FINNEGAN: Right. So you could do a
5 2-year follow-up, or you could do a prospective
6 randomized study doing your standard of care for
7 patients at the present time versus this implant
8 and document differences.

9 DR. BECKENBAUGH: Well, you could, but
10 what might you take the risk of doing? You might
11 take the risk of treating that patient early with a
12 device which we think is superior and switching
13 them to a silicone device which we know is a
14 salvage device--because if they progress, 2 years
15 later, I can't do that operation on that patient.

16 DR. FINNEGAN: But the opposite side,
17 which is what the panel has to look at, is that a
18 number of implants have come through here,
19 including for the hand population, which have
20 resulted in catastrophic things that are difficult
21 to fix down the road. So--

22 DR. BECKENBAUGH: Well, Dr. Naidu has
23 discussed the catastrophic events and has gone
24 through them in detail, but these are not
25 excessive. What he has failed to emphasize from my

1 perspective is the dramatically good results that
2 we have seen in extremely long-term follow-up.

3 There is the difference in the way we look at this.

4 There is a prosthesis that we have had
5 available to us that will let us do more than we
6 can possibly do with silicone devices, and that's
7 why we're here.

8 DR. SKINNER: Dr. Cheng?

9 DR. CHENG: I was just going to mention my
10 opinion. I sympathize with Dr. Finnegan's and Dr.
11 Naidu's comments. The data here, as I said before,
12 has severe limitations, and it is very difficult to
13 make a judgment on that.

14 So in my mind, it comes down to do you
15 approve this product, or is there reason to--in
16 other situations where I have dealt with this as a
17 panel, we either go back to the sponsor and say "Go
18 and do a prospective study"--this is what Dr.
19 Finnegan is driving at--a prospective randomized
20 study, the standard of care versus your product,
21 and come back in 2 years and tell us which is
22 better--or if it is equal or worse--hopefully, not.

23 So in my mind, does it warrant that at the
24 present time, or does it warrant approval, and
25 should we approve it in comparison to some other

1 times when we've just talked about approving
2 something maybe too early and not having sufficient
3 data.

4 My thought on this issue right now is that
5 in comparison to those other times where there are
6 perhaps six other devices that can do the same
7 thing, and someone is trying to get another device
8 on the market, this is a situation where there is
9 no other device on the market--this is what I am
10 hearing; that for rheumatoid arthritis, where there
11 is cartilage destruction but not to the point where
12 you want to do a constrained arthroplasty, or for
13 the traumatic case, there is no alternative other
14 than the standard of care, which is to, if it is
15 rheumatoid, treat the patient medically or with
16 therapy, or those other options I mentioned before,
17 amputation and arthrodesis.

18 So it seems to me like there is some
19 reason to think that there is an unmet need, if we
20 put it that way, in the clinical population, and
21 that's what I am hearing from this discussion, so
22 that is the only reason for me to think maybe we
23 ought to approve this with the given data, as
24 inadequate as it is, as opposed to asking the
25 sponsor to do a more rigorous study.

1 That's the way I'm trying to resolve this
2 in my mind, because I have the same feeling that
3 you do.

4 DR. SKINNER: Dr. Larntz?

5 DR. LARNTZ: One very small point. If
6 they do a 2-year study, it's only a 2-year study.
7 That's all. They won't have 10-year data.

8 DR. SKINNER: So you are implying that
9 they aren't going to learn a whole lot more--

10 DR. LARNTZ: Well, we'll learn about the
11 early parts of this intervention. We will not
12 learn about the long-term effects of this
13 intervention.

14 DR. SKINNER: Any more on indications and
15 contraindications?

16 Dr. Witten, did we cover the indications
17 adequately?

18 DR. WITTEN: Yes. Thank you.

19 DR. SKINNER: Are we ready for the open
20 public session?

21 DR. WITTEN: Excuse me. We do have one
22 other question about patient labeling, which is
23 what additional information do they need to provide
24 in their patient labeling, which are the
25 information sheets to the patients.

1 DR. ABOULAFIA: Is there a document that
2 we have been given that shows what the patient
3 labeling is? Is there an easy way to find it on
4 the CD?

5 DR. PEIMER: It's in Amendment 3, I think.

6 MR. DACEY: Page 116.

7 DR. PEIMER: That's correct; Amendment 3,
8 page 116, Appendix 5. It is Amendment 3, Appendix
9 5, page 116.

10 DR. WITTEN: I think if the panel could
11 just generally comment on what information they
12 think would be important to provide in a patient
13 information sheet, that would be helpful.

14 DR. CHENG: Haven't we already said what
15 information that is? Haven't we answered that
16 question?

17 DR. WITTEN: Well, you have been talking
18 about the information that should go to the
19 physician, I thought.

20 DR. CHENG: Is see, okay.

21 DR. WITTEN: Things like adequate soft
22 tissue available isn't really patient information.
23 But what do you think would be important to provide
24 to patients as information about this device?

25 DR. ABOULAFIA: The only ones that I think

1 about--and I am not a big fan of necessarily
2 patient information sheets--but something about the
3 physical therapy and your postoperative course, and
4 when do you call your doctor--if your finger
5 becomes red, hot, swollen, painful, and you develop
6 a fever, you should call your doctor. Other than
7 that--even though you had no infections--I think
8 those are appropriate.

9 DR. SKINNER: I think that's appropriate,
10 too; an emphasis that the physical therapy program
11 is very important in the process--or occupational
12 therapy, whichever.

13 Are there any other comments about the
14 patient labeling, page 117 and on?

15 Yes, Mr. Dacey. This is appropriate.

16 MR. DACEY: Yes, this kind of falls in my
17 area of expertise. Clearly, the applicant has
18 referred to the general patient labeling
19 recommendations, and I always tend to sometimes
20 agree and sometimes disagree with physician
21 perspectives on these kinds of issues, because I
22 have spent so many years dealing with patients and
23 interfacing between physicians and patients. And
24 of course, you have all heard "My doctor never
25 tells me anything."

1 There are also some legal informed consent
2 criteria that have to be met with these kinds of
3 documents. But my experience has been that we
4 always make assumptions that patients understand
5 the words that we put on paper, and if you look at
6 the Dokes [phonetic] study that I think goes back
7 to 1993, about fifth grade reading and
8 understanding abilities of the general population,
9 the recommendations say eighth grade. I would
10 still go back to the fifth grade. Plus, we have
11 this huge, diverse population in which, in our
12 section of the country alone, everything has to be
13 translated into Spanish now on several different
14 levels, and we are having extreme difficulty with
15 that very issue and also with the Hmong
16 populations.

17 But I was looking, and in the
18 recommendations, it says "We believe it would be
19 helpful to give the patient an easy-to-understand
20 description of the procedure," and they followed
21 the outline that was given. "The implant surgery
22 will likely take a few hours. The surgeon will fit
23 your finger with the correct size of the device and
24 then implant it into the natural cavities of your
25 finger bones." That is a description of the

1 procedure.

2 From a patient perspective, I favor
3 uncomplicated words and uncomplicated pictures.
4 This is an ideal spot to have a very uncomplicated
5 little illustration. And I found some paragraphs
6 where seven points were made in one paragraph,
7 using very compound, complex sentence structures.
8 I am a comma hunter--that goes back to my
9 journalism days--if there is more than one comma in
10 a sentence, you break up the sentence. And I found
11 some that really lend themselves very well to
12 bullet statements. But let's try to make it as
13 easy as possible for patients, or consumers when
14 they become patients, to have the very necessary
15 option to call your doctor, talk to your doctor,
16 ask questions. That's what all the TV commercials
17 are saying right now in prime time--ask your
18 doctor.

19 Let's give people the information that is
20 going to help them in their decisionmaking and
21 understanding. I can see in the hand therapy part
22 of this an illustrated time line of what to expect
23 across a period of time, because I was not aware of
24 the 4 to 6-week recovery period. That's longer
25 than bypass surgery for some people now.

1 So in summary, I would just say
2 uncomplicated words, uncomplicated pictures, and
3 keep in mind that patients really don't understand
4 abstract ideas, and that whatever we document is
5 still no substitute for that one-on-one contact and
6 the skill training that patients are going to need.

7 DR. SKINNER: Just one comment about that,
8 Mr. Dacey. This is an operation, a procedure that
9 hasn't been done for some time, and it is obviously
10 in a state of evolution if it is going to be done.
11 And to put this in a patient brochure that is
12 approved by the FDA that can't easily be changed
13 could result in tying the physician's hands in
14 terms of postoperative management. I would rather
15 leave it as vague as possible from that viewpoint.
16 But I would certainly go along with a picture or
17 even an x-ray. A lot of the population is very
18 sophisticated and watches television, sees these on
19 TV.

20 MR. DACEY: In the community where I live,
21 where I have consultations, I've got
22 astrophysicists as patients, and the line of
23 questions I get is a lot different than down the
24 road, with a totally different population. While I
25 agree that any time you put the words and pictures

1 on paper, you tend to freeze the design until such
2 time as it gets revised, I would not suggest that
3 you handicap the surgeon in any way, but I feel
4 there is a middle ground that this can be
5 accomplished. The lifetime of any document is not
6 6 months.

7 DR. SKINNER: Any other comments on
8 patient labeling?

9 DR. ABOULAFIA: It's not incredibly
10 germane--people use the term "conservative" to mean
11 "nonoperative," and I don't think that that
12 necessarily follows, so I don't like "conservative
13 therapy" to mean nonoperative.

14 DR. SKINNER: Dr. Witten, have we
15 addressed your issues?

16 DR. WITTEN: Yes. Thank you.

17 DR. ABOULAFIA: Mr. Chairman, would it be
18 appropriate to make a motion regarding the PMA
19 before us at this point?

20 DR. SKINNER: Not quite.

21 DR. ABOULAFIA: Okay.

22 DR. SKINNER: We will now proceed with the
23 open public session of this meeting. I would like
24 to ask at this time that all persons addressing the
25 panel come forward and speak clearly into the

1 microphone as the transcriptionist is dependent on
2 this means of providing an accurate record of this
3 meeting. We are requesting that all persons making
4 statements during the open public session of the
5 meeting disclose which company they represent and
6 whether they have financial interests in any
7 medical device company.

8 Before making your presentation to the
9 panel, in addition to stating your name and
10 affiliation, please state the nature of your
11 financial interest, if any.

12 Is there anyone wishing to address the
13 panel?

14 [No response.]

15 DR. SKINNER: Seeing no hands rise, we
16 will have a 5-minute break and then proceed with
17 potential comments from the sponsor.

18 [Short break.]

19 DR. SKINNER: Let's get started and wrap
20 this up.

21 We have discussed the open public session,
22 and no one from the public wanted to speak.

23 At this time, I would like to ask
24 Ascension if they have any final comments before
25 the panel proceeds with voting on the MCP finger

1 joint premarket approval application.

2 DR. KLAWITTER: Thank you.

3 I would like to take the opportunity to
4 thank everyone for their careful consideration.

5 DR. SKINNER: I would now like to ask Mr.
6 Haney Demian to read the voting instructions for
7 the panel.

8 MR. DEMIAN: I will now provide you with
9 the panel recommendations options for the premarket
10 approval application.

11 The Medical Device Amendments to the
12 Federal Food, Drug and Cosmetic Act require that
13 the Food and Drug Administration obtain a
14 recommendation from outside expert advisory panel
15 on designated medical device premarket approval
16 applications that are filed with the agency. The
17 PMA must stand on its own merits, and the
18 recommendations supported by safety and
19 effectiveness data in the application or by
20 applicable publicly available information.

21 Safety is defined in the Act as
22 "reasonable assurance, based on valid scientific
23 evidence, that the probable benefits to health
24 under the conditions of use outweighs any probable
25 risks."

1 Effectiveness is defined as "reasonable
2 assurance that in a significant portion of the
3 population, the use of the device for its intended
4 uses and conditions of use when labeled will
5 provide clinically significant results."

6 Your recommendation options for the vote
7 are as follows:

8 1) Approval. There are no conditions
9 attached.

10 2) Approvable with conditions. You may
11 recommend that the PMA be found approvable subject
12 to specified conditions such as resolution of
13 clearly identified deficiencies which have been
14 cited by you or FDA staff.

15 Prior to voting, all conditions are
16 discussed by the panel and listed by the panel
17 chair. You may specify what type of follow-up
18 information is needed as a condition of approval in
19 your recommendation. The panel may request
20 specific follow-up be done through a homework
21 assignment to the primary lead reviewers of the
22 application or to other specified panel members.
23 However, a formal discussion of the application at
24 a future panel meeting is usually not held.

25 If you recommend post-approval

1 requirements be imposed as a condition of approval,
2 then your recommendation should address the
3 following points: the purpose of the requirement,
4 the number of subjects to evaluated, and the types
5 of reports that should be required to be submitted.

6 Your third option is Not Approvable. Of
7 the five reasons that the Act specifies for denial
8 of approval, the following three reasons are
9 applicable to panel deliberations: a) the data do
10 not provide reasonable assurance that the device is
11 safe under the conditions of use prescribed,
12 recommended, or suggested in the proposed labeling;
13 b) reasonable assurance has not been given that the
14 device is effective under the conditions of
15 prescribed, recommended, or suggested in the
16 labeling; and c) based on a fair evaluation of all
17 material facts in your discussions, you believe the
18 proposed labeling to be false and misleading.

19 If you recommend that the application is
20 not approvable for any of these reasons stated,
21 then we ask you to identify the measures you think
22 are necessary for the application to be placed in
23 approvable form.

24 It is noted that following the vote, the
25 chair will ask each panel member to present a brief

1 statement outlining their reasons for their vote.
2 Traditionally, the Consumer and Industry
3 Representatives do not vote, and Dr. Skinner as
4 chairman only votes in the case of a tie.

5 Dr. Skinner?

6 DR. SKINNER: Thank you, Mr. Demian.

7 Before beginning the voting process, I
8 would like to mention for both the panel's benefit
9 and for the record that the votes taken are votes
10 in favor of or against the motion made by the
11 panel. Votes are not for or against the product.

12 Is there a motion?

13 MR. DEMIAN: We are going to allow Dr.
14 Naidu to provide that motion since he was the lead
15 panel clinical reviewer.

16 DR. SKINNER: Dr. Naidu.

17 DR. NAIDU: Yes. The motion is to approve
18 with conditions.

19 The conditions that I list are as follows,
20 and my reasoning is based on all the reasons that I
21 have given for the last several hours.

22 DR. SKINNER: Let's just stick with the
23 strict motion for right now, and we'll go into a
24 discussion phase after we have a second.

25 DR. NAIDU: Okay. The conditions that I

1 impose for this device that I would like to see--we
2 have a vacuum in the hand world; we have no other
3 alternative. This is a bold step. We need
4 something different for post-traumatic and
5 osteoarthritic patients.

6 The device was initially intended for
7 high-demand patients, great range of motion. I
8 think this device has great promise in that
9 direction.

10 Therefore, the condition that I would
11 impose is that this be approved for osteoarthritic
12 and post-traumatic arthritic patients.

13 Thanks.

14 DR. SKINNER: Is there a second to that
15 motion?

16 [No response.]

17 DR. SKINNER: Hearing no second, is there
18 another motion?

19 Dr. Aboulafia?

20 DR. ABOULAFIA: I'd like to introduce a
21 motion to approve the PMA presented before us,
22 Number P000057, with approval with conditions.

23 The conditions I would request are those
24 which have already been stipulated under the
25 section of contraindications and indications, the

1 contraindications being severe deformity and
2 rheumatoid arthritis, unreconstructable
3 radial-collateral ligament, extension lag greater
4 than 45 degrees, ulnar deviation greater than 30
5 degrees or one centimeter of subluxation, as well
6 as specific onsite training as recommended by the
7 sponsor during the discussion portion of this PMA
8 presentation.

9 And one cautionary portion about small and
10 ring digit, period.

11 DR. WRIGHT: Would you repeat the last
12 three?

13 DR. ABOULAFIA: With a cautionary
14 statement about results in the small and ring
15 digit.

16 DR. SKINNER: Is there a second for that
17 motion?

18 DR. LI: Could I have a clarification--is
19 that going to be the limit of the approvable with
20 conditions?

21 DR. SKINNER: No. After there is a
22 second, you can make an amendment, but until there
23 is a second--

24 DR. LI: Then, I second it.

25 DR. SKINNER: Okay. There is a second for

1 the motion. Now we can go on to discussion.

2 DR. PEIMER: I'd like to propose an
3 amendment. I think amendments take precedence.

4 DR. SKINNER: I don't know if that's the
5 case.

6 MR. DEMIAN: No. I think we have the
7 discussion, and then Dr. Aboulafia would be able to
8 amend his original motion as he saw appropriate.

9 DR. SKINNER: Dr. Larntz is always very
10 brief.

11 DR. LARNTZ: We need post-approval study
12 for this device. We have not enough data for this
13 device, so we have to have a post-approval study.
14 I will put out some numbers--they are subject to
15 modification--but I would say we need a 100-patient
16 follow-up in the OA group for 5 years. I would say
17 we need a 100-patient follow-up in the RA group for
18 5 years. I would say that it includes at least
19 five centers, not including Mayo Clinic, Rochester,
20 and I would say that it obviously needs to be a
21 prospective study and needs to collect detailed
22 adverse event information with follow-up at one, 3,
23 and 5 years for patients.

24 DR. SKINNER: Dr. Witten?

25 DR. WITTEN: You need to state the purpose

1 of the study.

2 DR. LARNTZ: The purpose of the study is
3 to fully understand the adverse event profile for
4 this device.

5 DR. WITTEN: I just want to make a
6 clarification about post-approval studies. When
7 you are voting, you are voting on whether there is
8 reasonable assurance of safety and effectiveness
9 or--Haney could read the language. So if you want
10 some post-approval information--if you vote that
11 there is reasonable assurance of safety and
12 effectiveness, then you need to focus what your
13 post-approval question is.

14 MR. DEMIAN: The points that should be
15 considered in a post-approval study are as follows:
16 the purpose of the requirement, the number of
17 subjects to be evaluated, and the types of reports
18 that should be required to be submitted. So I
19 think you've done two of them; now you need to do
20 the last one. Tell us what type of reports should
21 be required, and what would be in those reports.

22 DR. LARNTZ: I thought I said that. I
23 thought we were going to get adverse event
24 information.

25 DR. SKINNER: Would that not be

1 accomplished with the MDR process?

2 DR. LARNTZ: Not at all; not prospective
3 followed in the same way, no.

4 DR. SKINNER: Could I ask one more
5 question? Why would you want to do more than what
6 would typically be required for a PMA?

7 DR. LARNTZ: I just picked numbers, and I
8 said that's negotiable.

9 DR. SKINNER: Five years is way more than
10 you would typically need for a PMA. You'd need 2
11 years for a PMA.

12 DR. LARNTZ: Oh--this is a PMA, and we
13 have some--

14 DR. SKINNER: But you are talking about
15 approving it and then requiring a PMA.

16 DR. LARNTZ: No. I'm getting follow-up
17 information on these patients. That's all.

18 DR. SKINNER: Comments?

19 Dr. Peimer?

20 DR. PEIMER: From my view of the data
21 presented and with specific reference to what Dr.
22 Naidu discerned and what Dr. Beckenbaugh and
23 Ascension discussed as the peri-implant
24 implications, especially in the early phase, I
25 think the issues relative to sorting out the better

1 candidates--I hate to say "best"--in the rheumatoid
2 population, which we really want to find out to
3 refine the indications for this, could be served in
4 a 2-year study, and I would leave it to you,
5 Kinley, to tell us what the "N" should be, but I
6 would look at a 2-year study, and I like the idea
7 of multiple sites in addition to the Mayo Clinic.
8 Since the majority of the reoperations occurred in
9 that first 12 months, we may actually not even need
10 that second year to uncover what we are trying to
11 find out.

12 But that is the amendment I would have
13 made.

14 DR. LARNTZ: Two years is fine with me. I
15 would accept that, no problem. And the "N"--I am
16 worried about the OA group because of the very
17 small number of patients that we have data on. It
18 has been pointed out repeatedly. And a smaller
19 "N"--depending on what we think the event rates are
20 going to be for these things that we are worried
21 about, 50 patients in each group would be fine with
22 me. That would be fine.

23 DR. SKINNER: Dr. Aboulafia?

24 DR. ABOULAFIA: My guess is that you are
25 going to have trouble accruing 50 patients in a

1 reasonable period of time. Sponsor can tell me if
2 I am mistaken there. Dr. Beckenbaugh has done 4,
3 along with Dr. Linscheid, at a reasonably busy
4 academic institution. That's over a period of how
5 many years--12, 14.

6 Dr. BECKENBAUGH: That's correct.

7 DR. ABOULAFIA: So to expect you to get 50
8 OAs, depending on how many people you plan on
9 training, do you think Dr. Larntz is going to come
10 back with those kinds of numbers? In other words,
11 it isn't going to happen. We can ask them to do
12 it, and I think they are honest enough--

13 DR. SKINNER: Dr. Beckenbaugh, can you
14 answer the question?

15 DR. BECKENBAUGH: I think it's very
16 difficult in a post-study perspective to enroll
17 patients. The patients will generally have to have
18 information that may discourage them from
19 undergoing surgery. Perhaps there is paperwork,
20 there are commitments. I can guarantee you we will
21 be studying these patients extremely closely as we
22 are in our other endeavors, but I would like to
23 think we have the academic honesty to do this on
24 our own.

25 DR. SKINNER: Dr. Finnegan?

1 DR. FINNEGAN: Actually, I think Doug was
2 before me.

3 DR. WRIGHT: Thank you.

4 Dr. Witten, didn't we talk about labeling
5 before, and I thought everyone as in agreement that
6 we were going to add to the label the indications
7 and contraindications; correct? That's going to be
8 approved; that was from Question 2.

9 DR. WITTEN: Well, you can certainly use
10 the information you generated in Question 2, but
11 when you have your vote--that was a discussion; I
12 don't know that there was a vote on it. It will
13 have to be specifically included if that's the
14 information you want.

15 DR. WRIGHT: I guess my question is could
16 we not just vote--I thought that labeling was going
17 to be part of what we had talked about. My
18 inclination would be to put forth to vote as
19 submitted and then make that part of the labeling
20 restriction and not have it have anything to do
21 with the voting.

22 DR. SKINNER: Dr. Aboulafia?

23 DR. ABOULAFIA: My understanding is that
24 that is not the case; that if there are things that
25 you believe must be in the labeling which are not

1 in the sponsor's proposal, and that would influence
2 your decision to improve the PMA or not approve the
3 PMA, then it has to be specified.

4 DR. WRIGHT: Right. That's already in
5 their proposal, though, now.

6 DR. ABOULAFIA: It is not.

7 DR. WRIGHT: I thought they have a label
8 in that talks about what the indications and
9 relative contraindications are.

10 DR. ABOULAFIA: No. In the ones that I
11 mentioned--and I just took it off the CDROM because
12 I pulled it out--the things that came up in
13 discussion and sponsor can address are not
14 addressed in their application.

15 DR. WRIGHT: Do they have any restrictions
16 on their labeling?

17 DR. ABOULAFIA: Yes. They say
18 contraindications are severe bone loss, joint
19 sepsis, neurologic, skin, or bone condition, and
20 there is one more--I just took it off the--severe
21 rheumatoid is not listed as a contraindication, but
22 it has come up in discussion that
23 sponsor--actually, it was their idea, and I am just
24 talking about what they said.

25 I think they were very academically honest

1 and discussed what the limitations of the product
2 were, and that's why I quoted their words when I
3 used what I would include as contraindications.

4 DR. SKINNER: I think I'd feel more
5 comfortable with those in the motion also.

6 DR. WRIGHT: You'd feel more comfortable.

7 DR. SKINNER: Even though I won't vote on
8 it unless there is a tie.

9 DR. WRIGHT: Okay. I just thought that I
10 saw a table already listing indications and
11 contraindications.

12 DR. ABOULAFIA: It's 6.3. If you guys
13 want to tell me, I'll load it up real fast.

14 MR. STRZEPA: This is Peter Strzepa.

15 I'll just read the contraindications.

16 "Inadequate bone stock, indications of active
17 sepsis or infection in the MCP joint, nonfunction
18 or irreparable MCP musculotendinous system,
19 interference with or by other prostheses,
20 procedures requiring modification of the
21 prosthesis, and skin, bone, circulatory, or other
22 neurological deficiency."

23 DR. SKINNER: Dr. Finnegan?

24 DR. FINNEGAN: Thank you.

25 Actually, the clarification for the FDA is

1 what I would like to ask. I think, Dr. Witten,
2 what you see here is a group who sees an implant
3 that appeals to them; there is a clinical
4 indication for which there are not a lot of other
5 options, but there are some difficulties in making
6 a decision based on the material that we have.

7 What are the other options that would be
8 available to the company if we elected to not do
9 this?

10 DR. WITTEN: Well, I'll answer that, but
11 with a caveat.

12 DR. FINNEGAN: You always answer with a
13 caveat, so that's okay.

14 DR. WITTEN: Well, I'm with the FDA.

15 I just want to mention that we are asking
16 you to make your decision based on the data
17 available to you, so we want you to make your
18 decision on reasonable assurance of safety and
19 effectiveness based on what is in the application.
20 That is what we are asking.

21 So you are asking me in general for a
22 product that is--

23 DR. FINNEGAN: We don't want to see this
24 die; that is our concern. But I would say, just
25 listening to people around the table, that that is

1 a significant concern.

2 DR. WITTEN: Okay. Well, generically, the
3 routes of availability for Class III products that
4 are not Class III pre-amendments--including this
5 one, I'd say, with some exceptions which are
6 irrelevant here--the route to market for Class III
7 products in general is PMA, which is this. There
8 are other kinds of applications which include
9 something called a "product development protocol"
10 by which a sponsor can agree with the FDA
11 prospectively on what their development plan for
12 that product would be and then, at the end of that
13 time, if they fulfill the conditions of the PDP,
14 they can go to market. That is to say, they don't
15 have to come back for an approval; if they have all
16 their testing specified and they meet their
17 endpoints, they go to market. So that is a second
18 possibility.

19 Of course, there is Investigational Device
20 Exemption by which devices can be available and
21 also, if the population is small enough,
22 Humanitarian Device Exemption applications also,
23 which is for populations of 4,000 patients or less
24 a year in this country would be eligible.

25 DR. FINNEGAN: And how onerous is the

1 PDP--the IDE, I understand you have a time limit of
2 a maximum of 30 days before you answer them. What
3 about the PDP?

4 DR. WITTEN: Well, it's hard for me to
5 answer the question of "onerous." The sponsor
6 makes an application, we discuss it with them; in
7 general, we would bring it to a panel before
8 approval for discussion, depending on what our
9 questions were. It is a process; it is hard for me
10 to answer.

11 DR. SKINNER: A PDP is simply a PMA that
12 is done prospectively.

13 DR. WITTEN: Right; exactly.

14 DR. SKINNER: That's the only difference
15 is that basically, you are getting a promise from
16 the FDA up front that this is what is required so
17 that when Haney quits and Celia quits and all those
18 people quite and you've got another set of FDA
19 people, you don't have to wrestle with new
20 conclusions.

21 DR. FINNEGAN: Is that an option for us?

22 DR. WITTEN: You don't have the option to
23 vote on a PDP because that's not the application
24 you have in front of you. That's obviously
25 something that you could suggest. But we are

1 asking you to vote on this application that you
2 have in front of you.

3 I was just answering the question that you
4 asked about what were the regulatory options for
5 this kind of application--or, sorry--for which this
6 device would be eligible.

7 DR. SKINNER: Dr. Peimer?

8 DR. PEIMER: We seem to have gone south a
9 little bit on the numbers and what was reasonable
10 to do. I don't think we'd have a difficult time at
11 multicenters collecting data on rheumatoids
12 collecting data on rheumatoids, and if an "N"
13 of--you've got to help me with this, Kinley--let me
14 finish, and I think I'll make it easy for you--

15 DR. LARNTZ: Yes. Go ahead.

16 DR. PEIMER: What I'm going to suggest is
17 that we pick an "N" for the rheumatoid data and as
18 many osteoarthritis as are collected in that
19 time--that's the "N" for the osteoarthritis.

20 I have no doubt that Bob Beckenbaugh's
21 experience and that of his colleagues at the Mayo
22 Clinic will be adequately reported. I think it
23 will be more quickly reported if multiple sites are
24 enlisted in the process.

25 DR. LARNTZ: I have no problem with that.

1 And if I say 50 RAs and however many OAs collected
2 during the time period until the 50th is
3 enrolled--that's what you're talking about--I have
4 no problem with that.

5 DR. SKINNER: Let me interrupt for a
6 second. Haney has brought to my attention again
7 that if we are going to have a postmarketing study,
8 we have got to define what information we are going
9 to get out of that study, and that information
10 cannot be safety and efficacy, because we are
11 voting on that right now.

12 So what information do we want, and if we
13 can't get any information except safety and
14 efficacy, we should not have a study. What
15 information do we want?

16 DR. ABOULAFIA: I'll try to make it easy.
17 I'm not sure that I am all in favor of
18 post-approval study, but I think it might bring
19 people together without being onerous on industry.

20 Why don't we say that we'll collect
21 prospective data on the next 100 patients, with the
22 endpoints being range of motion, revision,
23 infection, and fracture, bone fracture or implant
24 fracture. And the purpose of that is--I know I'm
25 stretching; let me think--the purpose of that is to

1 see if other surgeons can reproduce the same
2 excellent results that have been achieved at a
3 given center.

4 DR. SKINNER: Let me make another
5 suggestion. Suppose we take 50 patients followed
6 for a year, and in those 50 patients, we define the
7 indications. That's not a safety issue is it, or
8 efficacy?

9 MR. DEMIAN: Can you redirect that
10 question to Dr. Witten?

11 DR. SKINNER: Dr. Witten, we take 50
12 patients for one year, and in those 50 patients, we
13 define the indications for the procedure more
14 clearly.

15 DR. WITTEN: Well, you need to decide
16 whether or not you think that the information in
17 the application, with the indication either as
18 written or as amended by you--indication can be
19 written--with a reasonable assurance of safety and
20 effectiveness. And if you think you can, that
21 leads you to one conclusion; if you think you need
22 a study to define indications, that is part of what
23 you are voting on when you vote that something is
24 safe and effective. It is safe and effective for
25 specific indications. So that really depends

1 on--you can recommend a study, but what that means
2 to us about what we know about the product is
3 different.

4 DR. SKINNER: I have been here for 4
5 years, and we have asked for studies in the past,
6 and I don't remember this being a problem before.
7 Were we doing wrong?

8 DR. WITTEN: I don't--I am not saying
9 anything inconsistent with what we say in general,
10 but I don't want to go on and talk about what we
11 have done with other products. I think our message
12 has really been consistent about post-approval
13 studies being to answer a focused question on a
14 product whose safety and effectiveness for a
15 specific indication are felt by the panel already
16 to be understood or demonstrated by the data in the
17 application.

18 DR. SKINNER: Dr. Aboulafia?

19 DR. ABOULAFIA: Let me just say for the
20 record that my intention to look at a post-approval
21 study was in the interest of compromise and that my
22 original motion sticks and that I believe with the
23 original motion as proposed for the indications
24 given and the contraindications given, it is safe
25 and effective.

1 DR. SKINNER: Discussion on that?

2 Dr. Larntz?

3 DR. LARNTZ: No more comments.

4 DR. SKINNER: Dr. Cheng?

5 DR. CHENG: I have a question for Dr.

6 Witten. I don't understand the background of this
7 application. This device was implanted from 1979
8 to 1987. It is now 2001, 14 years later. What
9 happened between 1987 and 2001, and why are we
10 looking at this in 2001? I'm sure there are some
11 issues that are going on here that I am just not
12 aware of, and I am wondering if I may be privy to
13 that--was it on the market during that time? Was
14 it taken off the market, and that's why the company
15 was formed? What has happened here?

16 DR. WITTEN: I can't--it hasn't been on
17 the market; it hasn't been on the market, and I--

18 DR. CHENG: Since when?

19 DR. WITTEN: It has never been
20 commercially available.

21 DR. CHENG: So how was it put in, then,
22 before--under an IDE?

23 DR. WITTEN: The initial implantations, I
24 think--although sponsor probably knows the history
25 better than I do--were prior to the IDE regulations

1 being in effect.

2 DR. CHENG: So it is a pre-amendment
3 device.

4 DR. WITTEN: No. The Medical Device
5 Amendments were in 1976, and I'm sorry I don't know
6 the exact time we had the IDE regulations, but
7 they--okay, '85. So someone else here knows better
8 than I do.

9 And what happened between--I don't know
10 that there are any specific issues. I am aware of
11 the application and the scientific issues we have
12 brought up today. I don't know of anything else
13 specific that would be useful to know, and I'm not
14 sure it would be relevant to the discussion anyway.
15 I don't know if the sponsor has anything to add. I
16 think that what is in front of you is what you need
17 to consider, not anything else--and I'm not even
18 sure what that something else would be.

19 DR. SKINNER: Any other discussion?

20 Dr. Li?

21 DR. LI: Can it be discussion on this
22 postmarket surveillance, or any other discussion--

23 DR. SKINNER: To my understanding, we have
24 discussed the possibility of a postmarketing study,
25 and we can't seem to find a way to do that without

1 invoking safety and efficacy. So Dr. Aboulafia
2 modified his proposal to not include the
3 postmarketing study and wants to go from there. So
4 if there is no more discussion, we'll vote on that.

5 DR. LI: I have an amendment, or I'd like
6 to add a condition if that is appropriate.

7 DR. SKINNER: Okay.

8 DR. LI: And I don't think it is onerous
9 on the industry at all--in fact, you may already
10 have the answer. But I just have this kind of
11 lingering "i" that I want to dot, that it has been
12 14 years since these devices were made that were
13 put in, and it could be that actually, your current
14 methods of manufacturing and production are even
15 better than they were, but there is actually no
16 direct comparison. In the two materials and design
17 areas we have had the most discussion of, wear and
18 fatigue and fracture, we only have the data from
19 the current proposed device; we have no comparison
20 back to the earlier device for which we have the
21 clinical information.

22 So my question is in particularly those
23 area of wear, fatigue and fracture, to make some
24 connection between their current Ascension device
25 and their original MCP device, however that might

1 be possible.

2 DR. SKINNER: You are implying that the
3 present testing methods that they devised are not
4 appropriate, or--

5 DR. LI: No. I am implying that the
6 material isn't the same. I have no basis for
7 comparison. In other words, we have one set of
8 clinical data with the original MCP device, which
9 was made with one set of materials and design, for
10 which we have clinical data; and then, most of the
11 preclinical data we have now is on the Ascension
12 MCP device. So we have clinical data on one side,
13 and we have materials and characterization on the
14 other side, but it is not the same device.

15 So for instance, a specific example--they
16 provided a fracture requirement range of somewhere
17 between 1.0 and 2.6, but that is for their new
18 device. I have no idea what those fracture ranges
19 were for the old device. And we know the old ones
20 didn't fracture--it's not that I have a fracture
21 concern--but I would like to have a warm and fuzzy
22 feeling that the current fracture values are
23 similar to the ones they had before.

24 DR. SKINNER: Dr. Klawitter, do you have
25 any inkling?

1 DR. KLAWITTER: This was a concern to us,
2 and we did address this issue. We had some
3 retrieved implants--not many of them--that were
4 intact. We had developed the ability to model
5 these using finite element techniques. We created
6 finite element techniques of the current device
7 that you are considering today, and we developed
8 finite element models of the retrieved devices.

9 We strain-gauged multiple devices of
10 retrieved and the currently existing device that
11 you are considering. We were able to confirm
12 through laboratory tests and load strain
13 measurements that the models were predictive within
14 approximately 5 percent, which I think is a very
15 good concurrence with that type of prediction.

16 We also established failure criteria by
17 doing load-to-failure tests with the current
18 materials, which we feel are characteristic of what
19 had been used in the past, because both of the
20 strength criteria are very similar. Based on those
21 measurements and using those fracture criteria, we
22 established that the current device has equal or
23 greater than fracture strength on the stem, using
24 the same type of test.

25 So I personally am very confident, and I

1 think the information that we have given you shows
2 beyond any reasonable doubt that in the current
3 device that we have, the stem is at least as strong
4 if not stronger than what was used in the patients
5 in the late 1979 to mid-1980s period.

6 We did not have enough of these historic
7 devices so that we could actually conduct fracture
8 tests, but we have confirmed the results of the FDA
9 analysis, and we have used those in subsequent
10 ways, and I am very confident in those results, and
11 they were included in the materials supplied.

12 DR. SKINNER: Any other comments before we
13 move to a vote?

14 Dr. Cheng?

15 DR. CHENG: Yes. I think it is important
16 to have some postmarket surveillance, and the
17 reason I say that is because I think the way to get
18 that done--otherwise, I could not approve the
19 motion in my own mind--the reason I say that is
20 because I think that it is weak, and we need to
21 know whether there are complications or risks that
22 are unknown. Like we said, the osteoarthritic
23 patients--it's a tiny number of people. If this
24 goes into another 20 to 25 people in the next 3 or
25 4 years around the country, people will want to

1 know if there are risks or complications that
2 develop that we don't know about today. And I
3 think that is the reason to do the postmarket
4 surveillance and see that.

5 It does make it more onerous for the
6 company, but I think it is necessary, and I think
7 it mandates that the company follow this along and
8 provide the funds to do so.

9 DR. SKINNER: Dr. Aboulafia?

10 DR. ABOULAFIA: I wonder if you would be
11 satisfied with one of the lead clinical
12 investigator's word that he intends to collect the
13 data prospectively, in a scientifically and
14 academically honest method and report his findings
15 or their findings. It sounds like he is going to
16 be training specific people who will be almost like
17 his little fellows, going out around the country
18 and doing this, and that it is not going to be
19 something that is available to everyone; there will
20 be a limited number of people doing it. And I
21 think they will be looking at "N". Some of these
22 issues are addressed with routine surveillance.
23 When complications arise in products that are
24 FDA-approved, they are appreciated by reporting
25 standards that are in place.

1 DR. CHENG: Well, we all know that the
2 threshold for MDR [phonetic] to catch something is
3 much higher than that. And I have no qualms about
4 the academic integrity of Dr. Beckenbaugh and
5 following the patients along. But making this a
6 requirement does provide the resources for doing
7 that. Otherwise, where is the resource? It takes
8 time, it takes money, it takes resources to do
9 this. Where does it come from?

10 DR. WRIGHT: I think they have already
11 given us a very long-term study. They have 10
12 years' follow-up on some of these people. So any
13 postmarketing surveillance that we're going to give
14 them is not going to be that far. This is unique
15 in that I think they have bent over backward to
16 demonstrate a lot of the problems that they have
17 had. I think they have been pretty honest with us.
18 So I don't think there are any snakes in the grass
19 with this product. I don't think there is going to
20 be something that is going to pop up 100 years from
21 now. I think they have pretty long follow-up on
22 this, and it seems to illustrate most of the things
23 that can go wrong.

24 DR. SKINNER: Dr. Larntz?

25 DR. LARNTZ: I have no doubt the Mayo

1 Clinic will follow these patients and do a very
2 good job. I have absolutely no doubt. I think it
3 is important if we are going to do some postmarket
4 study to do it in other centers to see how other
5 physicians would handle the new device. That's
6 all.

7 DR. SKINNER: I think we are spiraling to
8 an end here. I want Dr. Aboulafia to reiterate his
9 motion, and I think we should vote on it. I should
10 call the question or ask for someone to call the
11 question.

12 DR. ABOULAFIA: And I'm going to try to do
13 it, but I'm not sure how you're going to go with
14 this. I'm going to try to leave post-approval
15 studies out, and I'm going to keep the amendment as
16 I initially proposed it, and that is that I would
17 make a motion to approve the PMA before us
18 presented by Ascension, PMA Number 000057, for the
19 Ascension MCP joint replacement device, with the
20 conditions of better defining the indications,
21 which include specific onsite training with one of
22 us, a contraindication of severe deformity in
23 rheumatoid arthritis, a contraindication of
24 incompetent and inability to reconstruct the
25 radial-collateral ligament, extensor lag of greater

1 doesn't carry for that, then somebody else would
2 reintroduce a new motion.

3 DR. SKINNER: The difficulty with that
4 postmarket surveillance thing was that we couldn't
5 come up with a way of saying that we would get
6 information out of it other than safety and
7 efficacy, because that's what we're voting on right
8 here.

9 DR. CHENG: Right, but looking for unknown
10 risks that have yet to be problems--

11 DR. SKINNER: That's the problem, you see.
12 You're talking about safety.

13 DR. CHENG: That's fine, but let's say
14 people die of poisoning from this thing--I mean,
15 that's far-fetched--

16 DR. ABOULAFIA: Let me answer that in the
17 context of how Mr. Chairman presented it to you.
18 They have already given us data that people are not
19 going to die of poisoning, and I feel comfortable
20 with the data presented that people are not going
21 to die of poisoning that will not be addressed by
22 any postmarketing surveillance study, because we
23 have 10-year follow-up, and any postmarketing
24 surveillance study is going to only go out to 2
25 years.

1 DR. SKINNER: Okay.

2 DR. CHENG: I think the reason for it is
3 that, from what I hear from the discussion among
4 the panel, that is rather marginal. I think many
5 people on the panel feel that there is a place for
6 this product, but they don't feel completely
7 comfortable given what is in their hands at the
8 moment in time.

9 DR. ABOULAFIA: I think that's why the
10 conditions imposed are for a very specific group of
11 patients.

12 DR. SKINNER: I think we have got to go to
13 a vote here.

14 Dr. Larntz--wait a minute--the patient
15 representative can vote--

16 MR. DEMIAN: No.

17 DR. SKINNER: No. Only panel members.

18 MR. DEMIAN: Only panel members.

19 DR. SKINNER: Okay. Dr. Larntz?

20 DR. LARNTZ: Yes.

21 DR. SKINNER: Dr. Cheng?

22 DR. CHENG: No.

23 DR. SKINNER: Dr. Wright?

24 DR. WRIGHT: Yes.

25 DR. SKINNER: Dr. Lyons?

1 DR. LYONS: Yes.

2 DR. SKINNER: Dr. Finnegan?

3 DR. FINNEGAN: Unfortunately, no.

4 DR. SKINNER: Dr. Naidu?

5 DR. NAIDU: The motion--I can't accept

6 it--no.

7 DR. SKINNER: Dr. Li?

8 DR. LI: Yes.

9 DR. SKINNER: Dr. Peimer?

10 DR. PEIMER: Yes.

11 DR. SKINNER: Dr. Aboulafia?

12 DR. ABOULAFIA: Yes.

13 MR. DEMIAN: Six to three.

14 DR. SKINNER: It passes six to three.

15 MR. DEMIAN: It passes six to three.

16 Now you are going to go around the room

17 and vote on each specific condition.

18 DR. SKINNER: Okay. Let's try to do this

19 quickly.

20 First of all, a contraindication of severe

21 deformity in rheumatoid arthritis. That is

22 condition number one.

23 DR. ABOULAFIA: My vote is yes on every

24 one.

25 DR. PEIMER: My vote is yes on every one.

1 DR. SKINNER: Dr. Li?
2 DR. LI: Yes on every one.
3 DR. NAIDU: Yes.
4 DR. FINNEGAN: Yes on every one.
5 DR. LYONS: Yes on every one.
6 DR. WRIGHT: Yes.
7 DR. CHENG: Yes to all the conditions.
8 DR. LARNTZ: Yes to all the conditions.
9 DR. SKINNER: Now we have the discussion

10 of why the voted yes.

11 MR. DEMIAN: They can provide their
12 comments--

13 DR. SKINNER: If they want to.

14 MR. DEMIAN: --yes--on the way you voted.
15 Just go around the room, and if you want to provide
16 anything else, you can; if not, that's fine.

17 DR. WITTEN: Excuse me--are they going to
18 explain the way they voted for both questions?

19 MR. DEMIAN: Yes.

20 DR. WITTEN: For both--whether or not it
21 is approvable with conditions and on the
22 conditions?

23 MR. DEMIAN: Yes.

24 DR. SKINNER: Okay. Dr. Larntz, do you
25 want to start?

1 DR. LARNTZ: I voted yes because I believe
2 this device will be useful to patients; I am
3 convinced of that from the clinical information
4 provided here. I obviously believe that we need to
5 gather more information about this device; I'm sure
6 that will be done and presented in the
7 peer-reviewed literature. And I think the
8 conditions make it very clear that this panel
9 thought very carefully about the subpopulations for
10 whom this device would be intended, and I think the
11 indications are specific for those subpopulations.

12 DR. SKINNER: Dr. Cheng?

13 DR. CHENG: I voted no because I thought
14 the product should be approved with the study, as I
15 said, afterward, that should be done to gather more
16 information. I think there is a place for this
17 product. It is analogous--if I make the comparison
18 to the knee, I'm sure the hand surgeons would
19 shudder--but it's like having a hinged knee or
20 nothing, and here is a semi-constrained device that
21 given the data that we have, I feel it's okay to
22 use.

23 So that's the reason why the vote came out
24 "no" because of Albert's amendment, or Albert's--

25 DR. SKINNER: And regarding the

1 conditions, you felt that if it was going to be
2 "yes," the conditions were appropriate?

3 DR. CHENG: Yes, I thought they were
4 appropriate, yes.

5 DR. SKINNER: Dr. Wright?

6 DR. WRIGHT: I voted yes because I think
7 it's not a perfect implant, but I think it has some
8 demonstrated utility. I think the data seems to
9 support all the conditions that we put on it.

10 DR. SKINNER: Okay. Dr. Lyons?

11 DR. LYONS: I agree with that.

12 DR. SKINNER: Dr. Finnegan, closing
13 comments?

14 DR. FINNEGAN: Just reiterating, there is
15 not enough data for me to make a comfortable
16 decision, but if it is approved, there is no
17 question that it meets the conditions.

18 DR. SKINNER: Thank you.

19 Dr. Naidu?

20 DR. NAIDU: I voted no mainly because of
21 all the reasons that I previously stated. The
22 long-term complications are high in the rheumatoid
23 population, and the other thing is that postmarket
24 survey as requested by Dr. Cheng would have been
25 useful in light of long-term complications.

1 I think this device is very useful for the
2 high-demand post-traumatic and osteoarthritic
3 patient. I think its indications are guarded in
4 rheumatoid patients. The indications have changed
5 from the data that was presented and from the
6 presentation that was in front of the panel today.

7 There is a high complication rate, 40
8 percent success at 7 years' follow-up, and it is
9 hard for me as a hand surgeon; although I would
10 like to see something new in the hand arena, in
11 light of the motion that was made, I had to say
12 "no". But I think this device has great promise.

13 DR. SKINNER: Dr. Li?

14 DR. LI: I thought the device was
15 well-thought-out. The preclinical testing was
16 appropriate. My only--I'll go back to my main
17 concern, that we have one set of test data and one
18 set of clinical data not in the same material. I
19 think it is unlikely there is a problem there, but
20 anything you can do to bolster up that connection I
21 think could only be positive.

22 DR. SKINNER: Dr. Peimer?

23 DR. PEIMER: Dr. Larntz said it best, and
24 it need not be repeated. I agree with his
25 description and conditions. I would just beg the

1 manufacture never to use the word "cosmesis" and
2 never wear their vests inside their pants.

3 DR. SKINNER: Dr. Aboulafia?

4 DR. ABOULAFIA: I'd say that I agree with
5 Dr. Cheng and Naidu but came to a different
6 conclusion, and the remainder of my comments are on
7 record already.

8 DR. SKINNER: Thank you.

9 The recommendation of the panel is that
10 the premarket approval application for Ascension's
11 MCP finger joint be recommended for approval with
12 the conditions that have already been specified.

13 Executive Secretary?

14 MR. DEMIAN: I would like to thank all the
15 panel members for their time and effort and energy
16 in reviewing this material and their participation
17 on the FDA panel. All of your efforts are truly
18 appreciated.

19 At this time, I would remind all panel
20 members that if you want the review material and
21 any notes that you may have taken destroyed, please
22 leave it in front of you.

23 On behalf of FDA, I would like to thank
24 the entire panel.

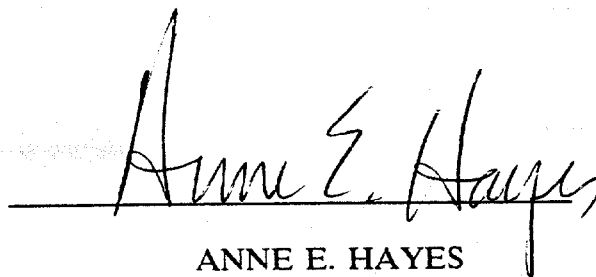
25 This meeting is adjourned.

1 [Whereupon, at 3:55 p.m., the proceedings
2 were concluded.]

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C E R T I F I C A T E

I, ANNE E. HAYES, the Official Court Reporter for Miller Reporting Company, Inc., hereby certify that I recorded the foregoing proceedings; that the proceedings have been reduced to typewriting by me, or under my direction and that the foregoing transcript is a correct and accurate record of the proceedings to the best of my knowledge, ability and belief.


ANNE E. HAYES